

WHAT IS CLAIMED IS:

1. A terminal connected to a network and comprising:
a transmission/reception part for sending and receiving a packet,
a CPU and
a memory for storing programs to be executed by the CPU to execute
first and second processes on a packet received from the
transmission/reception part

wherein the first and second processes are the processes executed on
the same layer of said received packet.

2. A terminal according to claim 1 wherein the first and second
processes are the termination processes on the same layer of the received
packet.

3. A terminal according to claim 1 or 2 wherein the first and second
processes are processes for terminating security processes executed on the
same layer of the received packet.

4. A terminal according to any one of claims 1 to 3 wherein the first
and second processes are processes for decrypting results of encryption
processes executed on the same layer of the received packet.

5. A terminal according to any one of claims 1 to 4 wherein the first
and second processes are the termination processes of IPsec executed on the

same layer of the received packet.

6. A terminal according to any one of claims 1 to 4 wherein the first and second processes are the termination processes of TLS performed on the same layer of the received packet.

7. A terminal according to any one of claims 1 to 6 wherein:

the memory further stores a program of a first operation system and a program of a second operation system executed on the first operation system;

the first process is a process executed on the second operation system; and

the second process is a process executed on the first operation system.

8. A terminal according to claim 7 wherein the second operation system is executed on a virtual machine configured on the first operation system.

9. A terminal according to any one of claims 1 to 8 wherein:

the network is also connected to a server for managing information on locations of the terminal; and

the first and second processes handles a packet transmitted from the server to the terminal.

10. A terminal according to claim 9 wherein:

the terminal is a terminal provided for mobile IP functions;

the server is a server provided for said mobile IP functions;

the terminal is a terminal functioning as a mobile node; and

the server is a server functioning as a home agent of the terminal.

11. A communication system comprising a terminal and a server, which are connected to a network, wherein:

the terminal has a transmission/reception part for sending and receiving a packet, a CPU and a memory for storing programs to be executed by the CPU to carry out first and second processes on a packet received from the transmission/reception part;

the server comprises a transmission/reception part for sending and receiving a packet, a CPU and a memory for storing information on locations of the terminal,

wherein the first and second processes executed by the terminal are processes for the same layer of a packet received from the server.

12. A communication system according to claim 11 wherein the first and second processes executed by the terminal are termination processes for the same layer of the received packet.

13. A communication system according to claim 11 or 12 wherein

the first and second processes executed by the terminal are processes for terminating security processes executed on the same layer of the received packet.

14. A communication system according to any one of claims 11 to 13 wherein the first and second processes executed by the terminal are processes for decrypting results of encryption processes performed on the same layer of the received packet.

15. A communication system according to any one of claims 11 to 14 wherein the first and second processes executed by the terminal are termination processes of IPsec executed on the same layer of the received packet.

16. A communication system according to any one of claims 11 to 14 wherein the first and second processes executed by the terminal are termination processes of TLS performed on the same layer of the received packet.

17. A communication system according to any one of claims 11 to 16 wherein:

the memory further stores a program of a first operation system and a program of a second operation system executed on the first operation system;

the first process executed by the terminal is a process executed on the second operation system; and

the second process carried out in the terminal is a process executed on the first operation system.

18. A communication system according to claim 17 wherein the second operation system is executed on a virtual machine configured on the first operation system.

19. A communication system according to any one of claims 11 to 18 wherein:

the terminal is a terminal provided for mobile IP functions;

the server is a server provided for the mobile IP functions;

the terminal is a terminal functioning as a mobile node; and

the server is a server functioning as a home agent of the terminal.

20. A home agent connected to a terminal or a router through a network and comprising

a transmission/reception part for sending and receiving a packet,

a CPU,

an address memory for storing the address of the terminal or the router and

a program memory for storing programs to be executed by the CPU to carry out first and second processes on a packet received from the

transmission/reception part, wherein

the first and second processes are processes executed on the same layer of the received packet.

21. A home agent according to claim 20, the home agent connected to a mobile terminal or a mobile router wherein:

the address memory further stores the address of the mobile terminal and the mobile router; and

the first and second processes are executed on a packet received from the mobile terminal through the mobile router.

22. A home agent according to claim 20 wherein the first and second processes are termination processes on the same layer of the received packet.

23. A home agent according to claim 20 wherein the first and second processes are processes for terminating security processes executed on the same layer of the received packet.

24. A home agent according to claim 20 wherein the first and second processes are processes for decrypting results of encryption processes executed on the same layer of the received packet.

25. A home agent according to claim 20 wherein the first and

second processes are termination processes of IPsec executed on the same layer of the received packet.

26. A home agent according to claim 20 wherein the first and second processes are termination processes of TLS performed on the same layer of the received packet.

27. A home agent according to of claim 20 wherein:

the program memory further stores a program of a first operation system and a program of a second operation system executed on the first operation system;

the first process is a process executed on the second operation system; and

the second process is a process executed on the first operation system.

28. A home agent according to claim 27 wherein the second operation system is executed on a virtual machine configured on the first operation system.